

**What We Do**

## Electro-Optics Sensors and Subsystems (Field Testing)

RTTC capabilities for field-testing of Electro-Optics (EO) sensors and subsystems cover a broad range of applications, services, and specialized infrastructures.

### Primary Services and Capabilities

- Seeker sensor captive carry flight testing
  - Integration of seekers and sensors on fixed and rotary-wing aircraft
  - Stabilized Electro-Optical Airborne Instrumentation Platform (SEAIP)
  - Guidance section seeker performance tests
- Instrumented "Dirty battlefield" testing for systems and subsystems
  - Obscurants and obscurant characterization
  - Tracked and wheeled target array (domestic and foreign)
- Laser designator performance characterization
  - Real-time laser spot position
  - Compact Automated Centroid Tracker Instrumentation System (CACTIS) laser spot detection system
- Target signature characterization/signature measurement
  - Mobile IR imaging platform
    1. 60 foot pneumatic mast
    2. 360° measurements around stationary targets
    3. 10° to 70° depression angles
  - Stabilized platform (SEAIP)

- Instrumented "air defense" system/subsystem testing supported
  - Detection/recognition tests
  - System of systems tests
  - Threat simulators
  - Helicopter masking areas, varied terrain
- Data acquisition / Networking
  - RAVIN
  - LOCAITS



Seeker/sensor  
test with  
obscurants



Obtaining target  
signatures



Stablized platform  
and sensor  
integration

## Supplementary Services

- Instrumentation development
- Data reporting
- Safari test support
  - Test control vans
  - Mobile telemetry ground station support (data acquisition and display) and other instrumentation
- Aircraft support (i.e., coordination, modification, and analysis of aircraft; integration of test hardware on aircraft; and provision and coordination of all aircraft used in support of tests)
- Spectral countermeasures (both airborne and ground) furnished

## Specialized Facilities and Equipment

- Airborne Systems Laboratory/Hangar adjacent to a 7,300-foot runway
- Laser/optical field test facility, that includes an 75-foot sensor tower and instrumented 5 km and 8 km ranges
- Instrumented air-defense test site with Redstone Arsenal "over flight" capability
- MMW test facilities
- EO/IR test facilities
- Automated Laser Instrumentation and Measurement

System (ALIMS)

- Automated laser spot centroid tracker



Aerial of Airborne  
Systems Lab



Black Hawk being  
readied for EMC  
testing



4 Black Hawks in  
the Airborne  
Systems Lab



Redstone Arsenal  
Airfield



EO Sensor and  
Designator Test  
Range



Air Defense Test  
Site

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